

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/041764 A1

(51) International Patent Classification⁷: A61B 5/00

(21) International Application Number:
PCT/HU2004/000103

(22) International Filing Date:
4 November 2004 (04.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
P0303605 4 November 2003 (04.11.2003) HU

(71) Applicant (for all designated States except US):
SZEGEDI TUDOMÁNYEGYETEM [HU/HU]; Dugonics tér 13., H-6720 Szeged (HU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): BODA, Domokos
[HU/HU]; Roosevelti tér 10-11., H-6720 Szeged (HU).

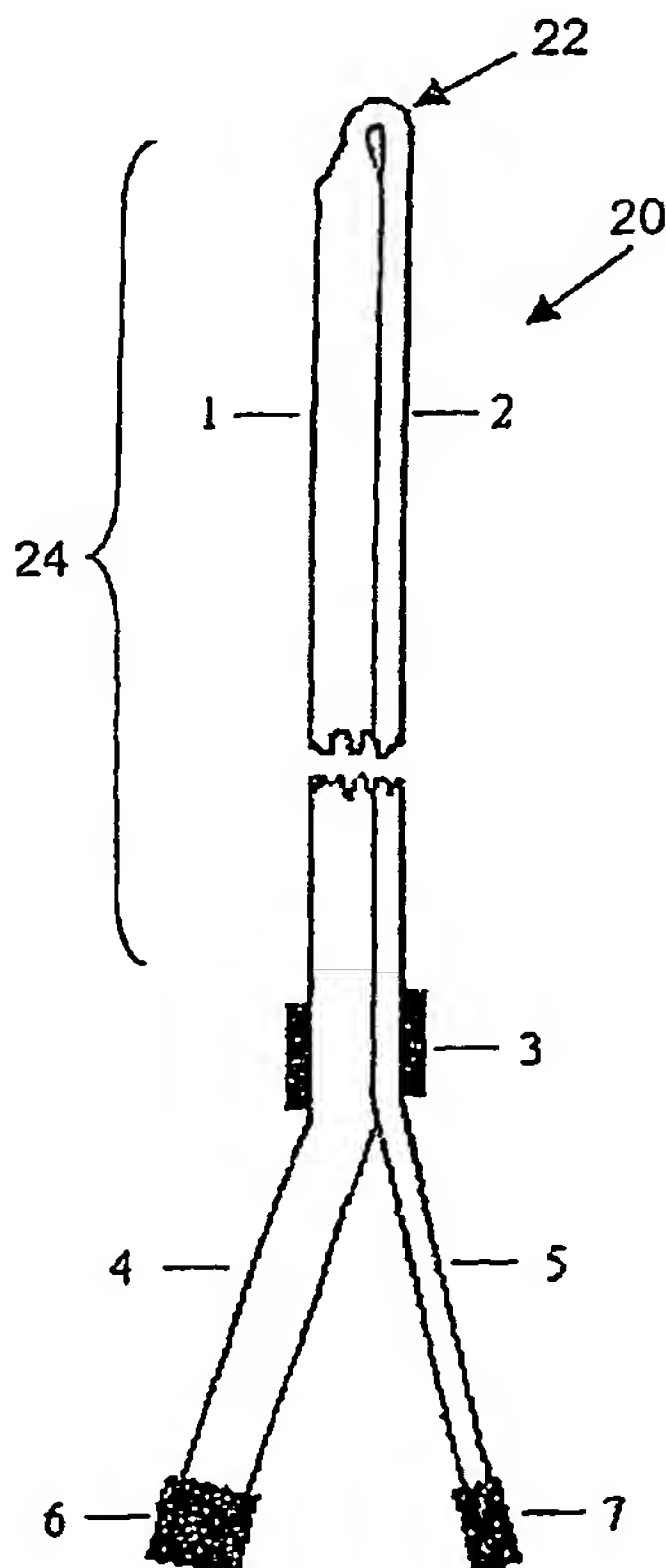
(74) Agent: DANUBIA PATENT AND TRADEMARK ATTORNEYS LTD; P.O. Box 198, 1368 Budapest 5, Bajcsy-Zsilinszky út 16., H-1051 Budapest (HU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: DIAGNOSTIC PROBE AND KIT FOR TONOMETRIC EXAMINATION OF RESPIRATORY INSUFFICIENCY AND REGIONAL PERFUSION FAILURE OF THE BODY



(57) Abstract: The invention relates to a tonometric device (20) for examination of respiratory insufficiency and regional tissue perfusion failure in patients, comprising a distal end (22), a section (24) to be introduced into the body, and a fixing part (3). The section (24) to be introduced comprises a first tube (1) to which an additional tubing (4) is connected. A second tube (2) is arranged substantially parallel with the first tube (1). At least the section (24) of the first tube (1) is made of a material permeable for gases, especially for carbon dioxide, but substantially impermeable for body fluids, preferably of silicone rubber. The device does not comprise any balloon, it can be introduced into the patient stomach without preliminary preparation, and is useful for examination of premature babies.



FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

— *with amended claims*

Date of publication of the amended claims: 14 July 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.